PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: GREGORY N. CLEMENTS DOUGHERTY, CLEMENTS, HOFER & BERNARD 1901 ROXBOROUGH ROAD, SUITE 300 WRITTEN OPINION OF THE CHARLOTTE, NC 28211 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) 15 JUN 2005 Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below 2004/02 PCT International filing date (day/month/year) Priority date (day/month/year) International application No. 22 March 2004 (22.03.2004) 18 March 2005 (18.03.2005) PCT/US05/08989 International Patent Classification (IPC) or both national classification and IPC IPC(7): D01F 6/00; B32B 5/02, 27/12, 27/04 and US Cl.: 428/364, 375; 442/93,94 Applicant INVISTA NORTH AMERICA 1. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II **Priority** Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Certain documents cited Box No. VI Certain defects in the international application Box No. VII Certain observations on the international application Box No. VIII 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/ US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

3. For further details, see notes to Form PCT/ISA/220.

Telephone No. 571-272-1700

Authorized officer

N Edwards

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/08989

| Box No | o. I Basis of this opinion |
|----------------|---|
| | |
| | regard to the language, this opinion has been established on the basis of the international application in the language in which filed, unless otherwise indicated under this item. |
| | This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)). |
| 2. With claime | regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ed invention, this opinion has been established on the basis of: |
| a. | type of material |
| | a sequence listing |
| | table(s) related to the sequence listing |
| b. | format of material |
| | in written format |
| | in computer readable form |
| c. | time of filing/furnishing |
| | contained in international application as filed. |
| | filed together with the international application in computer readable form. |
| | furnished subsequently to this Authority for the purposes of search. |
| | |
| 3. | In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. |
| 4. Addi | tional comments: |
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/08989

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

| 1. Statement | | | | |
|--------------|-------------------------|--------|------|-----|
| Noveli | ly (N) | Claims | NONE | YES |
| | | Claims | 1-8 | NO |
| Invent | ive step (IS) | Claims | NONE | YES |
| | | Claims | 1-8 | NO |
| lndust | rial applicability (IA) | Claims | 1-8 | YES |
| | | Claims | NONE | NO |

2. Citations and explanations:

Claims 1-8 lack an inventive step under PCT Article 33(3) as being obvious over Hancock (US 663087) in combination Applicant admission at page 2 of spec.

Hancock teaches a fabric (include any and all fabric) made from yarn which is made from filament(s)have a coating of halogenated (fluorochemicals) polymer. Hancock further teaches the filaments are be made from polyesters, poly-olefins, polyamides and others polymers.

Hancock still further teaches the filaments have a contact angle (or water contact angle) of 90 degrees. Hancock is silent to wick performance and so called static Voltage (operating range) of +/-400 volts.

Applicant admission on page 2 of the spec it is well known if the art the fabrics made of polyester yarn having fluorochemical finishes have a wicking performance of 6.4mm and a static voltage range greater than 400 volts.

Therefore, it would have been obvious to one of ordinary skill in the art that the fluorochemical coated fabric, as taught by Hancock, have a reasonable expectation of success of possessing the claimed wicking performance and static voltage, as taught by Applicant admission. Hence obviousness is met.

Claims 1-8 meet the criteria set out in PCT Article 33(4), and thus the filament yarn and fabric have industrial applicability because the subject matter claimed can be made or used in industry.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/08989

| Box No. VIII Cei | rtain observations on the international application | | | | |
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| The following observat | ions on the clarity of the claims, description, and drawings or on the questions whether the claims are fully iption, are made: | | | | |
| Claims 1 and 5 "static voltage of +/-400 volts" is vague, indefinite and misleading. As written in the claim it appears the filament yarn or fabric has the static voltage of +/-400 VOLTS. Reading the claims in light of the spec at page 2 and page 8 "static voltage" as claimed is a static operating range of voltage (+/-400 volts) use to measure static voltage running in a yarn with a voltmeter. | | | | | |
| Correction is required. | | | | | |
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